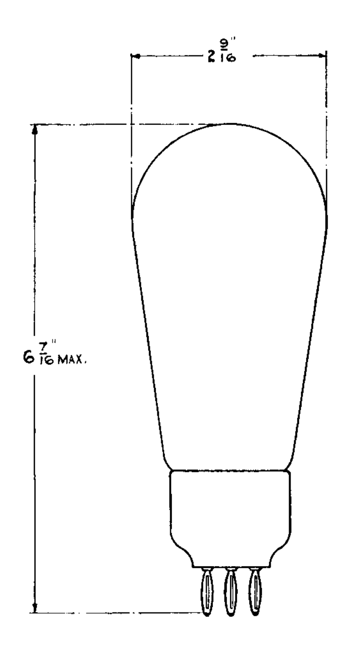
—Standard Valves—

4097-A VALVE

TRIODE.

SPECIFICATION.

Cathode.
Oxide coated filament.
Constant voltage type.



Base.
Standard British 4-pin.

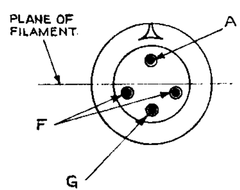
Dimensions.

Maximum overall length	$6\frac{7}{16}$" (16·3 cm.)
Maximum diameter	$2\frac{9}{16}$" (6·5 cm.)

Constants.

Filament voltage	6 volts
Nominal filament current	1·1 amps.
*Impedance	3,000 ohms
*Amplification factor	10
*Mutual conductance	3·3 mA per volt
Grid–anode capacity	8·5 $\mu\mu$F.
Grid–filament capacity	12·5 $\mu\mu$F.
Anode–filament capacity	10·5 $\mu\mu$F.

* At Vp = 500 volts. I_p = 50 mA.



LIMITING CONDITIONS FOR SAFE OPERATION.

Maximum direct anode voltage	500 volts
Maximum anode dissipation	35 watts
Maximum direct anode current	135 mA.
Maximum frequency for above ratings	2 Mc.
Maximum anode voltage for frequency of 10 Mc.	400 volts

Tentative data

—Standard Valves—

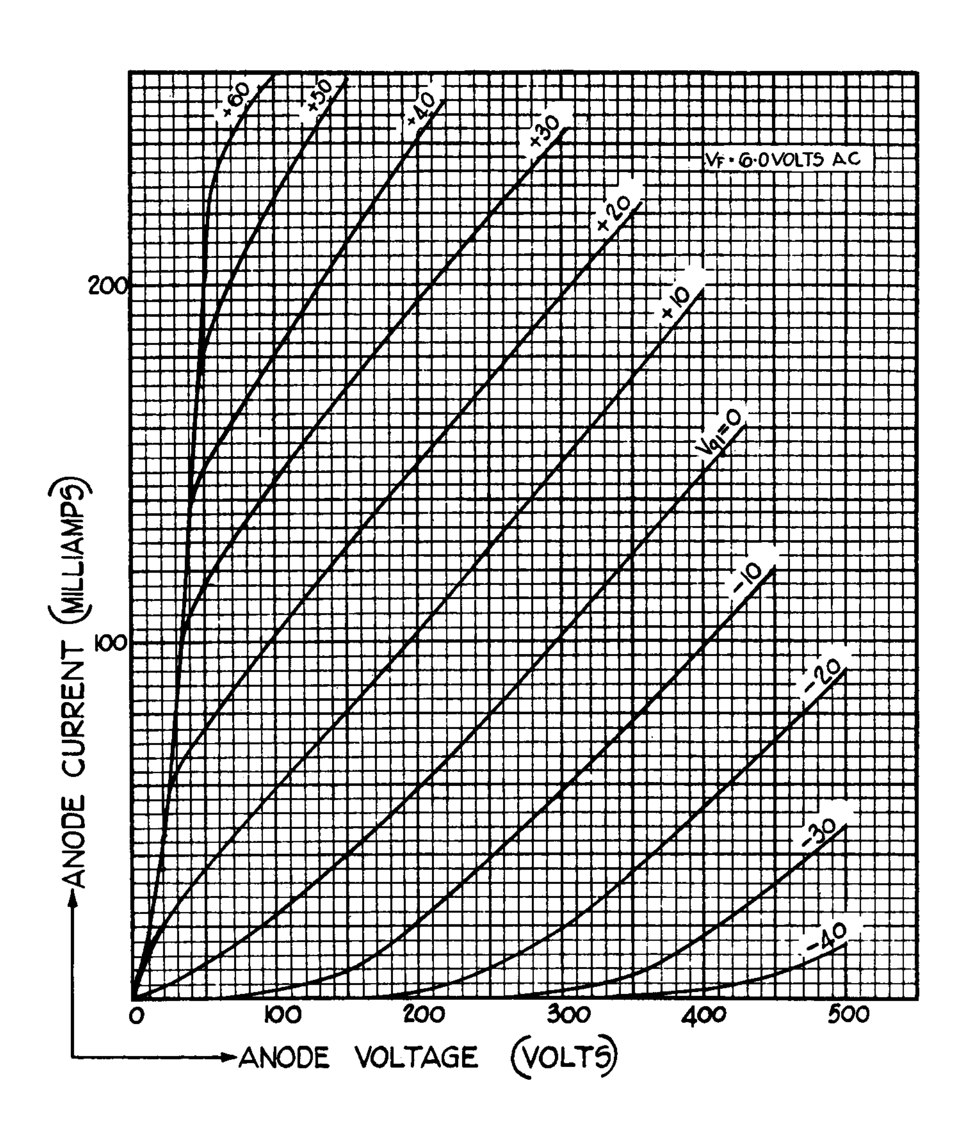
TYPICAL OPERATING CONDITIONS.

	Class B. A.F. Amp. and Mod. For balanced 2-valve circuit
Direct anode voltage	500 volts
Grid bias (approx).	—38 volts
Direct anode current per valve—zero signal	25 mA.
maximum signal	135 mA.
Load resistance, anode to anode	3,300 ohms
Anode dissipation per valve	30 watts
Maximum signal output—2 valves	75 watts

RADIO FREQUENCY OPERATION.

	Class B Telephony	Class C Telephony	Class C Telegraphy
	Modulated carrier applied to grid	Subject to anode modulation	Unmodulated
Direct anode voltage	500	350	500 volts
Direct anode current	100	130	120 mA.
Control grid bias	—45	—80	—100 to —150 volts
Anode dissipation	33	15	20 watts
Power output	17	30	40 watts

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